

**STANDARD LIST**

**MACHINE OPERATOR ASSISTANT – PLASTIC  
PROCESSING**

**SECTOR: RUBBER /PETROCHEMICAL**

**SUB-SECTOR: MANUFACTURING/ PLASTIC PROCESSING**

**REFERENCE ID: RSC/Q4801 (CPC/Q0103)**



**State Council of Educational Research and Training(SCERT)**

**Vidyabhavan, Poojappura, Thiruvananthapuram - 695 012**

**[www.scert.kerala.gov.in](http://www.scert.kerala.gov.in)**

**This list of equipment, tool, furniture&consumablesare prepared for a batch of 30 students**

<b>Part A -EQUIPMENTS</b>			
Sl. No	NAME	SPECIFICATION	QUANTITY
1	Steel Rule	300 mm in English and Metric combined	15
2	Engineer's Square	150 mm with knife edge	10
3	Bench Vice	150 mm	5
4	Outside micrometer	0-25 mm, with 0.01 mm least count	5
5	Vernier caliper	Range 200 mm, with 0.02 mm least count	5
6	Vernier height gauge	Range 300 mm, with 0.02 mm least count	1
7	Pie tape		5
8	Pillar Drilling Machine	0-20 mm capacity.	1
9	Bench Pedestal Grinding machine (General purpose)	D.E. with 20 cm dia. Capacity	1
10	MFI apparatus	0 To 400°C	1
11	Plastic scrap grinder	9" blade type	1
12	Pre heater 12 trays	25 kg capacity 20 minutes drying	1
13	Hand operated Injection Moulding machine	30 gram capacity	1
14	Automatic Injection Moulding Machine	50 T capacity (with Microprocessor/PLC controller)	1
15	Hand operated Blow Moulding Machine with moulds and accessories of ¼ litre capacity	¼ litre capacity	1
16	Auto Blow Moulding Machine with set of moulds and accessories	1 litre capacity (with Microprocessor/PLC controller)	1
17	Extruder with downstream lines such as film/pipe with re-processing unit.	30 mm with	1
18	Injection Moulds	Pipe fittings/ mug/ etc.	2
19	Blow Moulds	250 ml, 500 ml bottle moulds	2
20	Extrusion dies	Pipe/ profile dies	2

**Part C - TOOLS and ACCESSORIES**

SL NO	NAME	SPECIFICATION	QUANTITY
1	Hacksaw frame	Adjustable with pistol grip for 200-300 mm blade	5
2	Centre punch	10 mm	5
3	File flat Medium	250 mm	10
4	File flat	2 <sup>nd</sup> cut Medium 250 mm	10
5	File flat	safe edge 200 mm	10
6	File	triangular smooth 200 mm	10
7	Caliper	inside spring type-150 mm	5
8	Caliper	outside spring type-150 mm	5
9	Screw driver –	150 mm	5
10	Screw driver –	200 mm	5
11	File card		5
12	Hammer Ball Peen	0.5 kg with handle	5
13	Surface plate	300 x 300 x 80 mm	1
14	Fire Extinguisher	6 kg or less Wall mount	2
15	Fire buckets with stand	6.00 kilograms or less Standard size	2

**Part D – CONSUMEBLES**

SL NO	NAME	SPECIFICATION	QUANTITY
1	LDPE Injection grade		25
2	LDPE Blow grade		25
3	LDPE Extrusion grade		25
4	HDPE Injection grade		25
5	HDPE Blow grade		25
5	HDPE Extrusion grade		25
6	PP Injection grade		25
7	PP Blow grade		25
8	PP Extrusion grade		25
9	PVC extrusion grade		25

**Part E - FURNITURE**

<u>1</u>	Workbench	240 cm x 120 cm x 75 cm - suitable for fitting vices	<u>1</u>
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